

SAFETY DATA SHEETAccording to
HSNO Hazardous Substances (Safety Data Sheets) Notice 2017**Section 1. Identification of the material and the supplier**

Product: **W & H Service Oil F1 MD 500 STANDARD**
 Article No: 028119
 Product Use: Lubricating oil
 Restriction of Use: Restricted to professional users.

New Zealand Supplier: **Ivoclar Vivadent Ltd**
 Address: 12 Omega St
 Rosedale
 Auckland 0632, New Zealand
 PO Box 303011, North Harbour
 Auckland, 0751

Telephone: +64 9 914 9999
 E-Mail: orders.nz@ivoclarvivadent.com
Emergency No: 0800 764 766 (National Poison Centre)

Manufacturer: Klüber Lubrication München
 Address: Geisenhausenerstr. 7
 81379 München
 Deutschland
 Telephone: +49 (0) 89 7876 0

Date of SDS Preparation: 14 November 2019

Section 2. Hazards Identification

The manufacturer has stated that this substance is NOT hazardous according to the EPA Hazardous Substances (Classification) Notice 2017 and GHS classification system.

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
Dec-1-ene, dimers, hydrogenated	≥1 - < 10	68649-11-6

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. If eye irritation persists, consult a specialist.

If on Skin Remove contaminated clothing. If irritation develops, get medical attention. In case of contact, immediately flush skin with plenty of water

If Swallowed Do not induce vomiting. Wash out mouth thoroughly with water. Never give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Seek medical attention if needed.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms: None known.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable
Hazards from combustion products	Fire may cause evolution of: Carbon oxides
Suitable Extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Do not use a high volume water jet.
Precautions for firefighters and special protective clothing	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Exposure to decomposition products may be a hazard to health.
HAZCHEM CODE	None Allocated

Section 6. Accidental Release Measures

Wear protective gear as detailed in Section 8. Evacuate all unnecessary personnel.

Do not allow to enter drains and water courses.

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Section 7. Handling and Storage

Precautions for Handling:

- For personal protection see section 8.
- Smoking, eating and drinking should be prohibited in the application area.
- Wash hands and face before breaks and immediately after handling the product.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Store in original container.
- Keep container closed when not in use.
- Keep in a dry, cool and well-ventilated place.
- Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- Keep in properly labelled containers.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³

No ingredients have exposure limits.

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working

day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2017 9TH EDITION.

Engineering Controls

None known.

Personal Protection Equipment



Eyes	Safety glasses with side-shields conforming to EN166
Skin	For prolonged or repeated contact use Nitrile rubber gloves.
Respiratory	Not required; except in case of aerosol formation. Filter type A-P

Section 9 Physical and Chemical Properties

Appearance	Liquid
Colour	Yellow
Odour	Characteristic
Odour Threshold	Not available
pH	Not available
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	>200°C (open cup)
Flammability	Not available
Upper and Lower Explosive Limits	Not available
Vapour Pressure	< 0.17 hPa (20 °C)
Density	0.84 g/cm ³ (20 °C)
Specific Gravity	Not available
Water Solubility	Insoluble
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	22 mm ² /s (40 °C)
Particle Characteristics	Not available

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous reactions	Not available
Conditions to Avoid	None known.
Incompatible Materials	None known.
Hazardous Decomposition Products	Fire may cause evolution of: Carbon oxides

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable.
Dermal	Not applicable.
Inhalation	Not applicable. >5mg/l/4hrs (dust/mist)

Eye	Not applicable.
Skin	Not applicable.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Components:

Dec-1-ene, dimers, hydrogenated:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 401
GLP: yes

Acute inhalation toxicity : LC50 (Rat): 1.17 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: yes

Acute dermal toxicity : LD50 (Rabbit): > 3,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

Section 12. Ecotoxicological Information

This product is not hazardous to the environment.

Product:	
Persistence and degradability	No data available
Bioaccumulation	Remarks: This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).
Mobility in Soil	No data available
Other adverse effects	No data available

Components:

Dec-1-ene, dimers, hydrogenated:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l
Exposure time: 96 h
Test Type: semi-static
Test Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 1,000 mg/l
Exposure time: 48 h
Test Type: immobilization
Test Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae : EC50 (Scenedesmus capricornutum (fresh water algae)):
>1,000 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):
: NOEC (Daphnia magna (Water flea)): 125 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211
GLP: yes

Biodegradability : Result: Not rapidly biodegradable

Bioaccumulative potential : log Pow: > 6.5

Section 13. Disposal Considerations

Disposal Method:

Triple rinse container and dispose of according to Local Regulations.

Precautions or methods to avoid: Avoid release to the environment.

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in NZ ; NZS 5433:2012

Section 15 Regulatory Information

The manufacturer has stated that this substance is NOT hazardous according to the EPA Hazardous Substances (Classification) Notice 2017 and GHS classification system.

Section 16 Other Information

Glossary

EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

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